

HOW TO USE YOUR



Bell & Howell
430
AUTOLOAD[®]
SUPER 8
CAMERA

WELCOME TO **Bell & Howell** OWNERSHIP

Open this flap
of your instruction booklet

Keep the flap open as you read through the instructions that follow. This will give you a quick reference to all the working parts of your Autoload Super 8 camera. Familiarity with these names before operating your camera will assure complete success with your first roll of film.

Super 8 gives you new opportunities to enjoy taking movies simply, easily, creatively. Super 8 eliminates every bit of film handling, permits the camera to make almost every setting for you.

SUPER 8 FILM

When you purchase film make sure you specify Super 8. Your camera will not operate with conventional 8mm film.

NO MESSY SPOOLS TO HANDLE OR THREAD

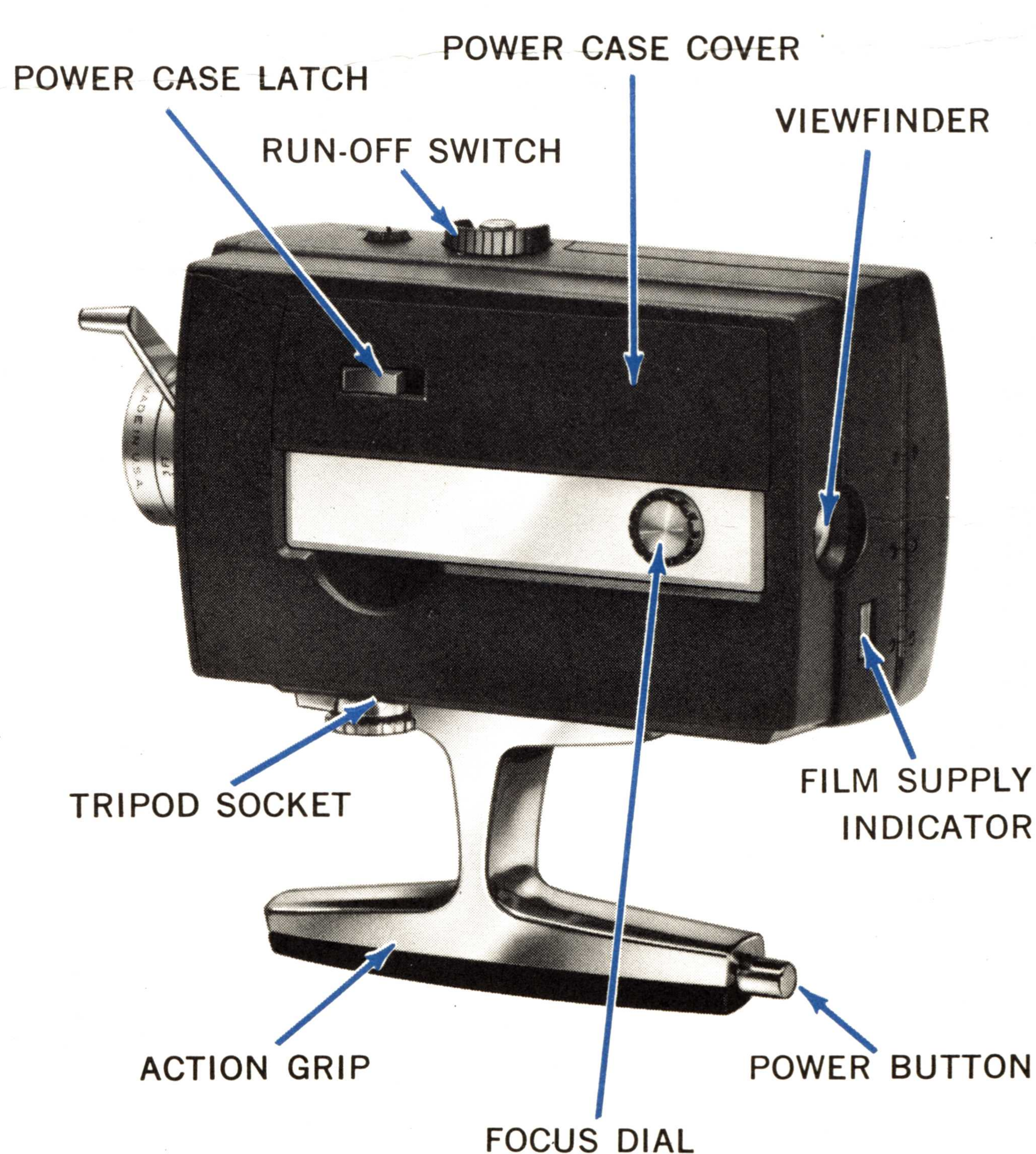
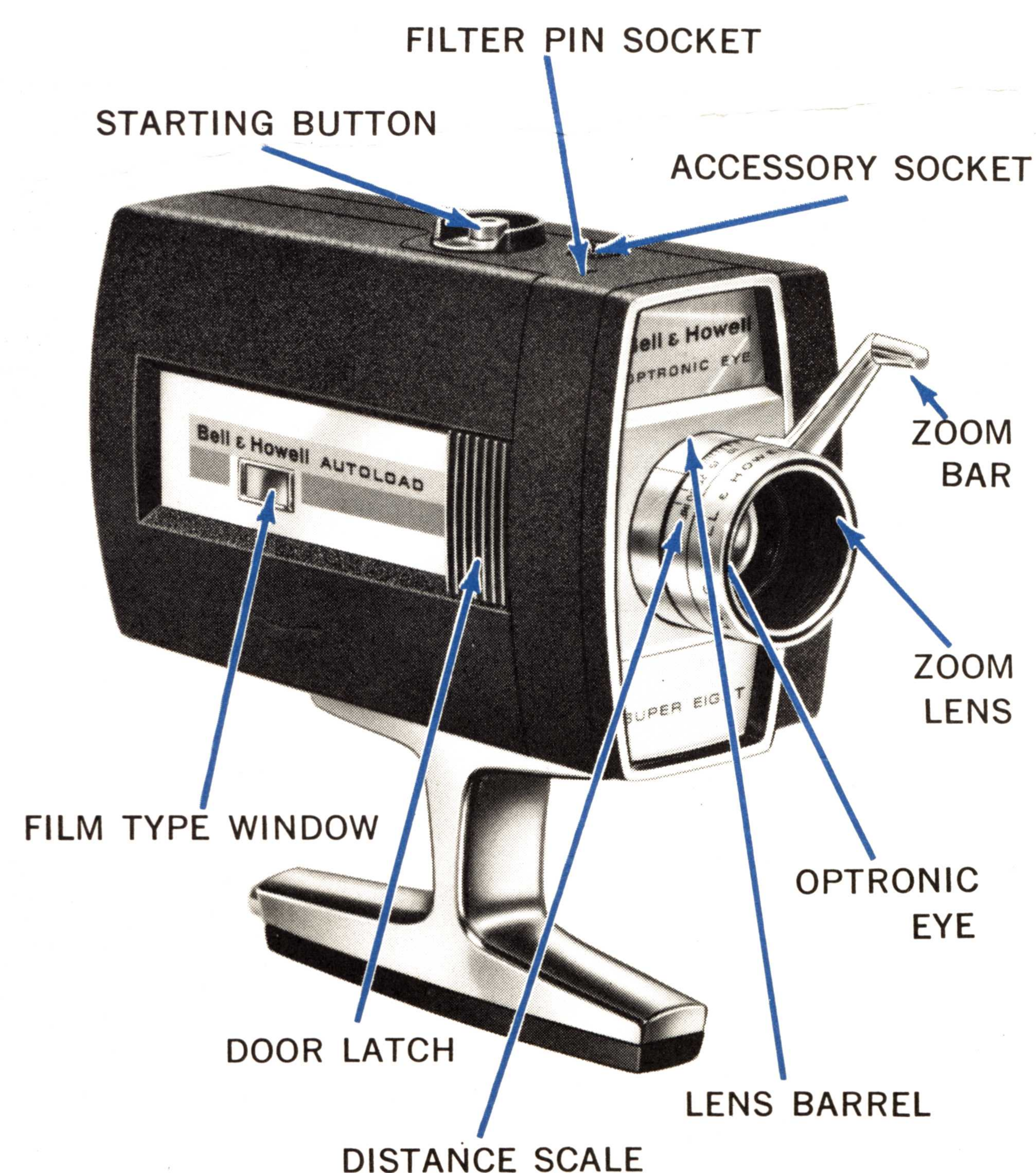
Just slip in the entire cartridge, right out of the box.

NO ASA OR FILTER SETTINGS

—or type film to worry about. The specially notched cartridge automatically tells the camera what settings to make. The camera will handle every film speed from ASA 10 to ASA 400.

NO FLIP OVER FOR THE SECOND SIDE

—or rehandling at the end. Super 8 is a continuous 50 foot length of film. Run it through completely, then send the whole thing—cartridge and all—to the processor.



*this is your key to
easier more delightful
movie making!*



introducing the all new
Bell & Howell
CARTRIDGE LOADING
SUPER 8 CAMERA

2

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3

a. TO OPEN CAMERA DOOR JUST SLIDE DOOR LATCH TOWARDS REAR OF CAMERA

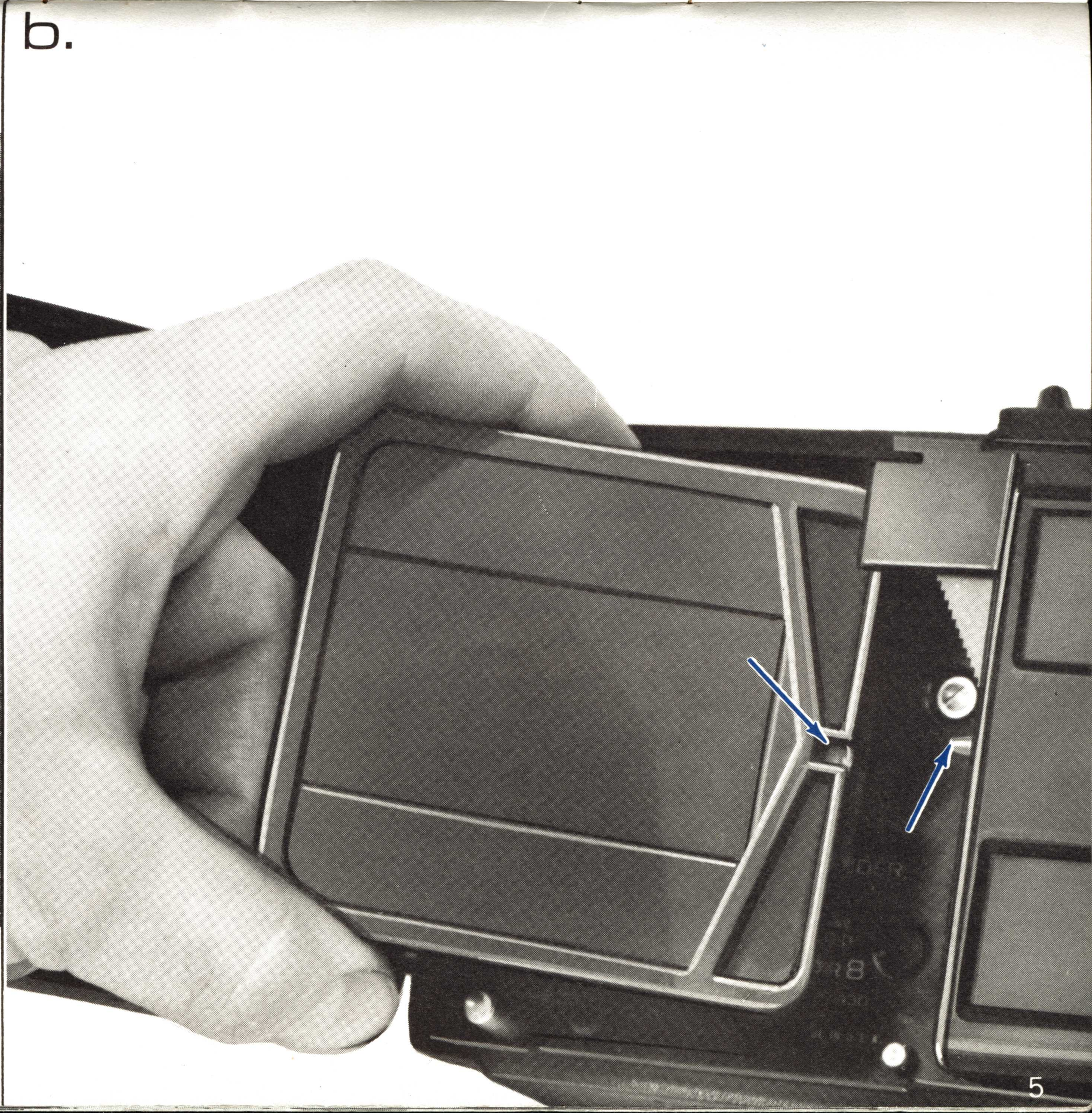
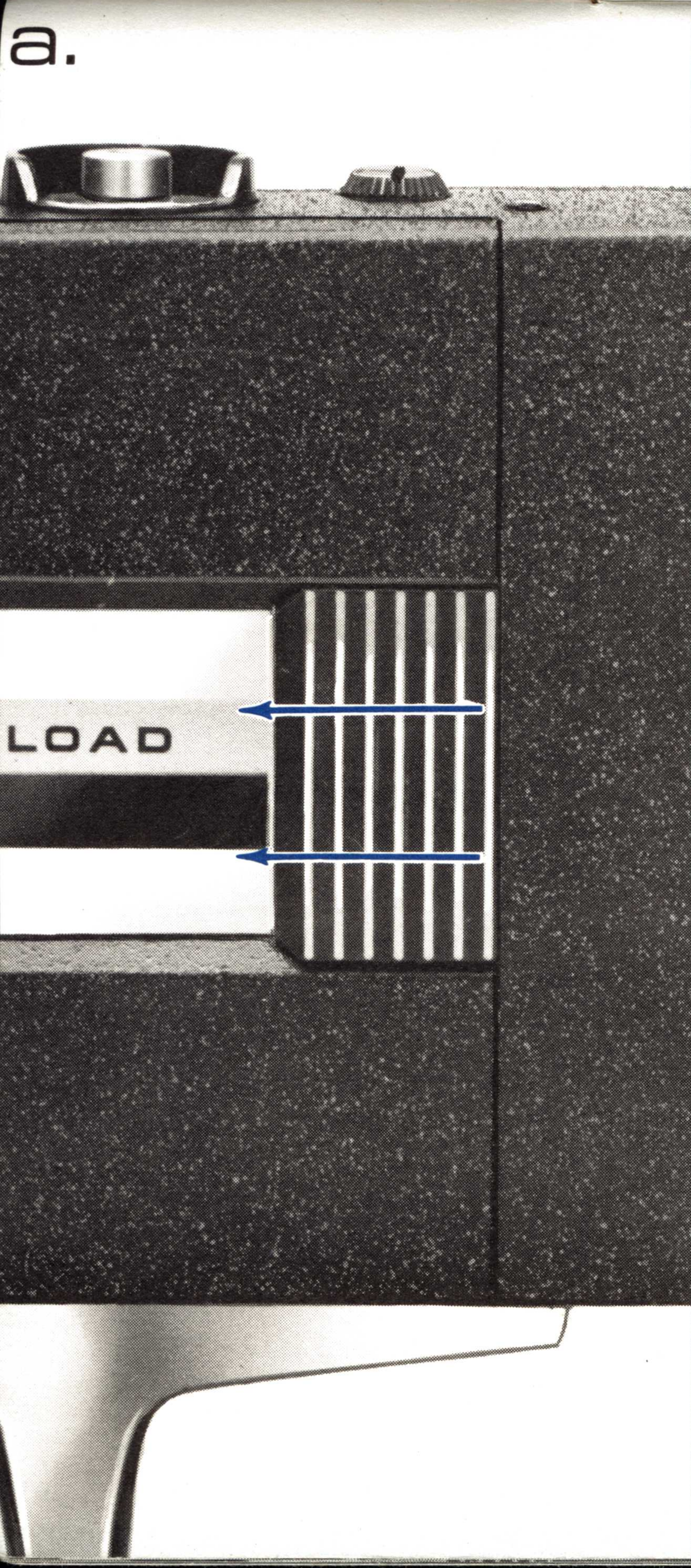
NOTE: Before taking movies, load penlite batteries into Power Case as described on pages 14 and 15. Purchase batteries from your Bell & Howell dealer.

b. INSERT FILM CARTRIDGE

The Cartridge will fit only one way—you can't make a mistake. Slide Cartridge in Right-side-up towards front of Camera as illustrated, aligning slot in Cartridge (arrow) with pin on Camera (arrow). This step AUTOMATICALLY:

- **THREADS FILM**
- **SELECTS PROPER FILTER POSITION**
- **SETS CORRECT ASA**
- **ACTIVATES FOOTAGE COUNTER**

Close Camera Door and lock by sliding Door Latch towards front of Camera.



2 BEFORE TAKING MOVIES OBSERVE THESE EASY PRE-SHOOTING STEPS

a. SET DISTANCE SCALE

Most of your movies can be taken with the Lens set at its universal setting. Rotate the front section of the lens until the Distance Scale is set between 15 and 25 feet (detent). For more critical focusing, adverse lighting conditions or telephoto shots, it is necessary to estimate the distance from your camera to subject. Set this distance by matching the number on the Distance Scale to the indicator line on the Lens Barrel.

FOCUS EYEPiece

With distance scale set at the approximate distance you are shooting from, look through Viewfinder and rotate Focus Dial until image is sharp. This sets the Eyepiece to your individual eyesight, and is necessary only once. If someone else should use the Camera, they must also correct the Eyepiece to their individual need.

c. ZOOM FOR COMPOSITION

Look through Viewfinder and rotate Zoom Bar until scene is composed exactly as you want it.

d. EXPOSURE NEEDLE

A Black Needle will appear on the left side of your Viewfinder when there is insufficient light to take pictures.

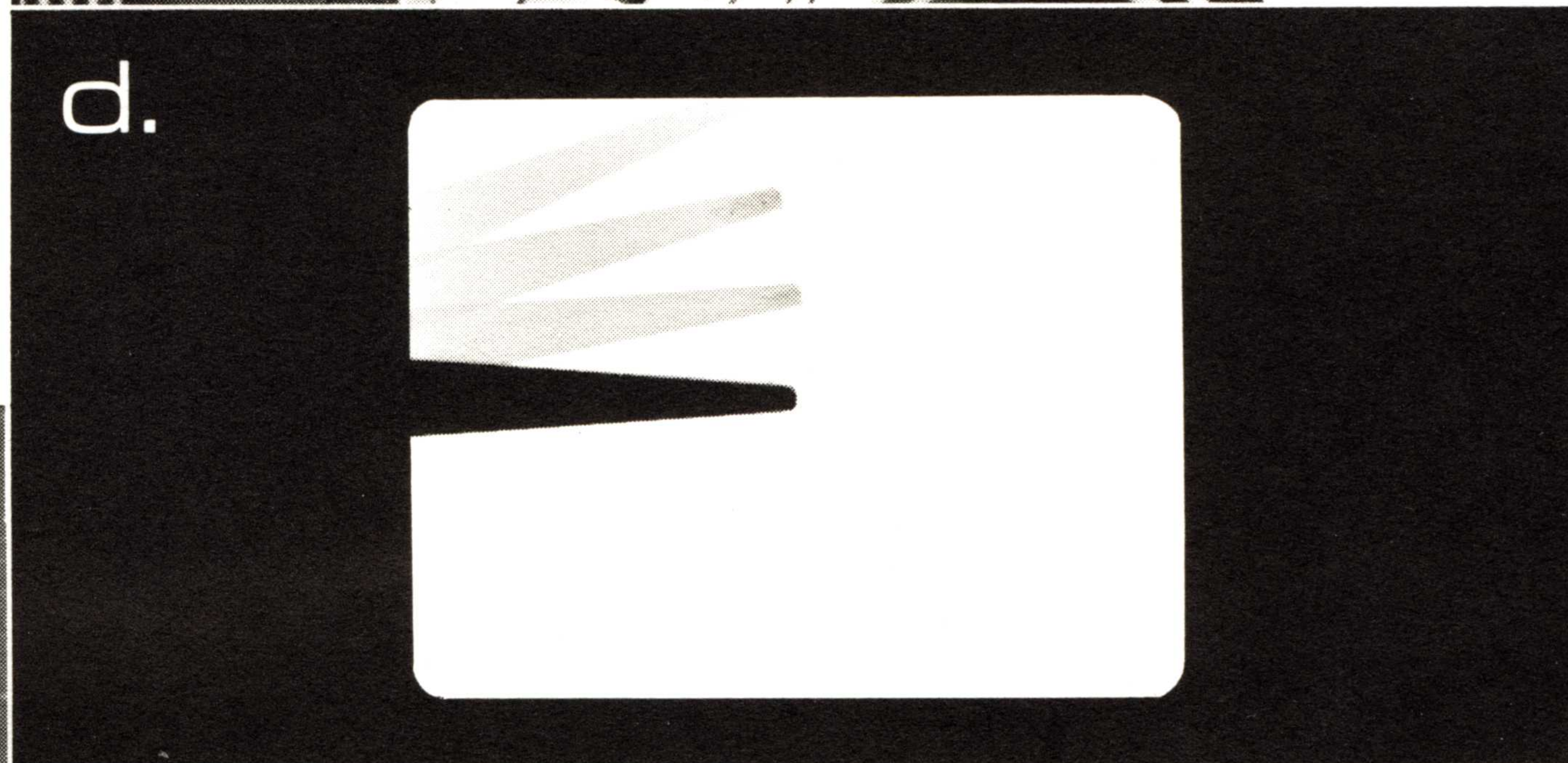
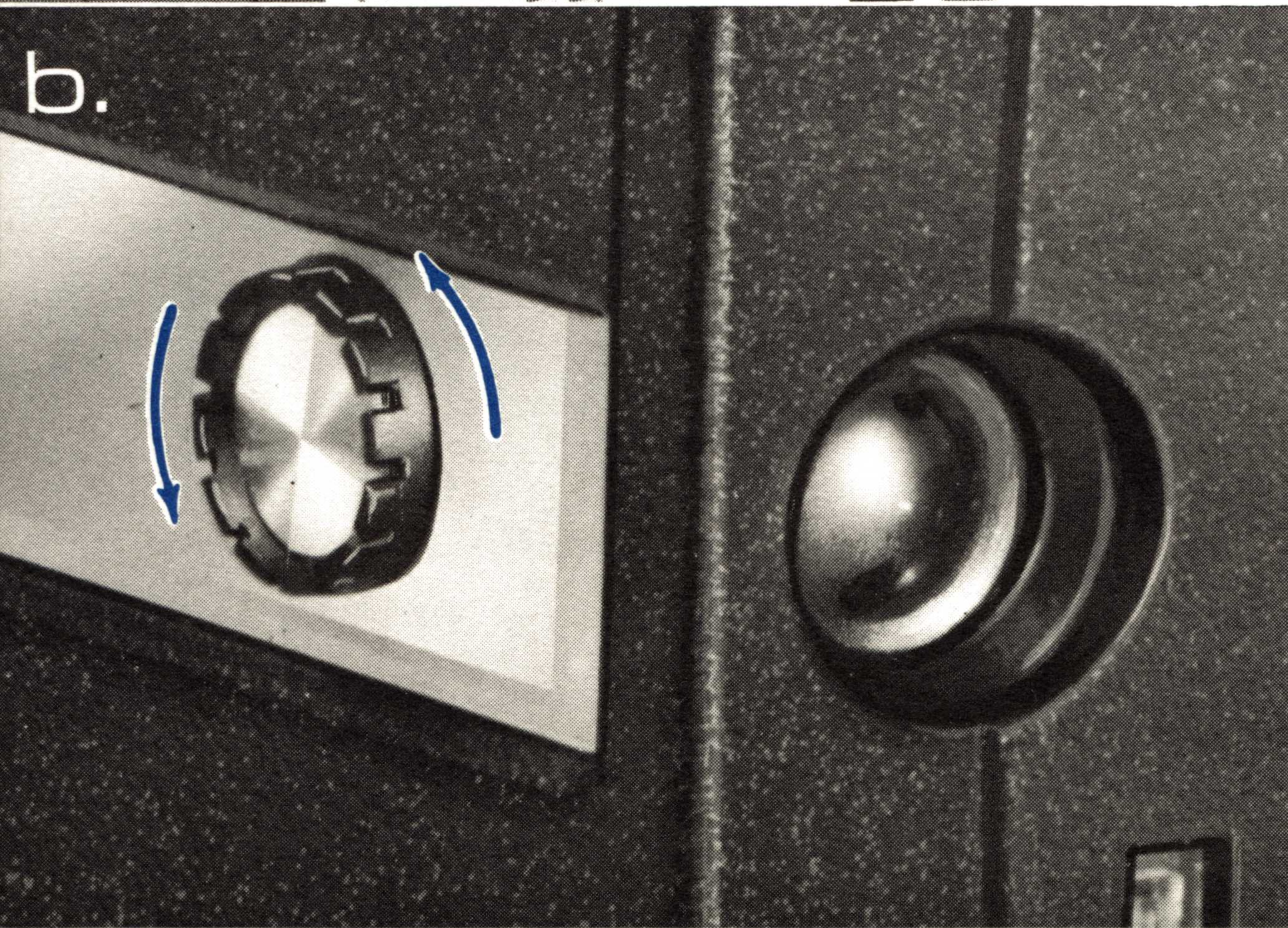
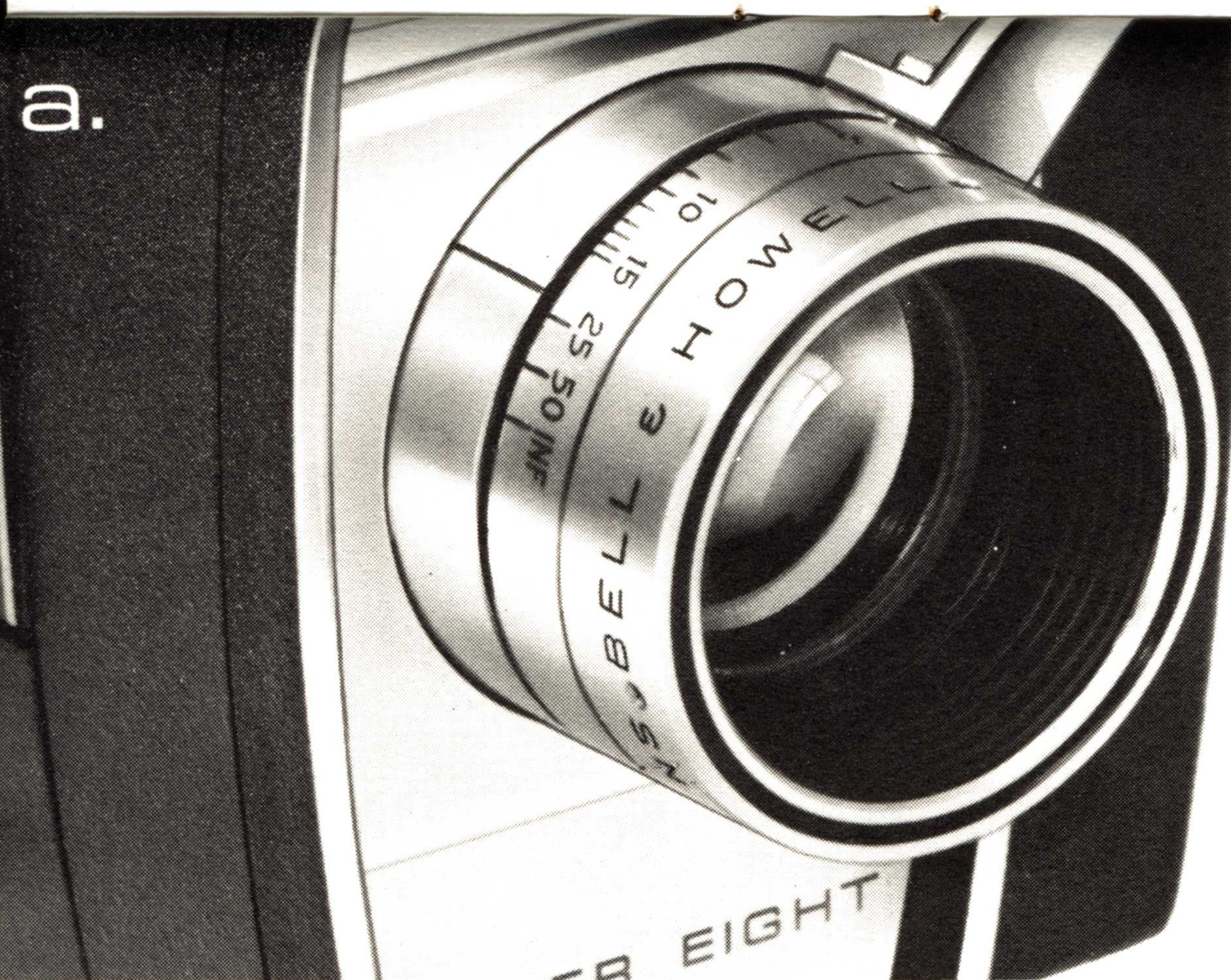
NOTE: The Exposure Needle will not operate unless the camera is loaded with film, good batteries and is in the "on" position.

e. FILM SUPPLY INDICATOR

The Film Supply Indicator located on the rear of the Camera should be referred to frequently enough to keep you informed on how much film is in the camera. The background will transpose from black to red, becoming completely red when the full 50 feet of film is exposed.

NOTE: The Film Supply Indicator only works when a film cartridge is inserted in the camera.

6



7

3. HOLDING CAMERA

a. WITHOUT ACTION GRIP:

Hold Camera firmly as illustrated below



4. STARTING BUTTON RUN-OFF SWITCH

a. RUN:

Now you are ready to take movies. Move Switch to "RUN" position and press Starting Button down. With Action Grip accessory, depress Power Button in same manner.

LOCK RUN:

If you want to get into the picture, place your camera on a tripod (or flat dependable surface). Then lock the Starting Button in "Run" position by moving the Switch to "L.R." (Lock Run) while Button is depressed. To stop shooting, release Button by moving Switch to "RUN" position.

b. ANIMATION:

To shoot Animation, one frame at a time (for shooting titles and unusual effects), you will need an accessory Cable Release. Place your camera on a flat dependable surface or tripod and screw Cable Release directly into the top of the Starting Button. Depress and immediately release Cable Release to expose one frame at a time.

NOTE: For best results use a Bell & Howell Canon 10" cable release #112502 available at your nearest authorized Bell & Howell dealer.

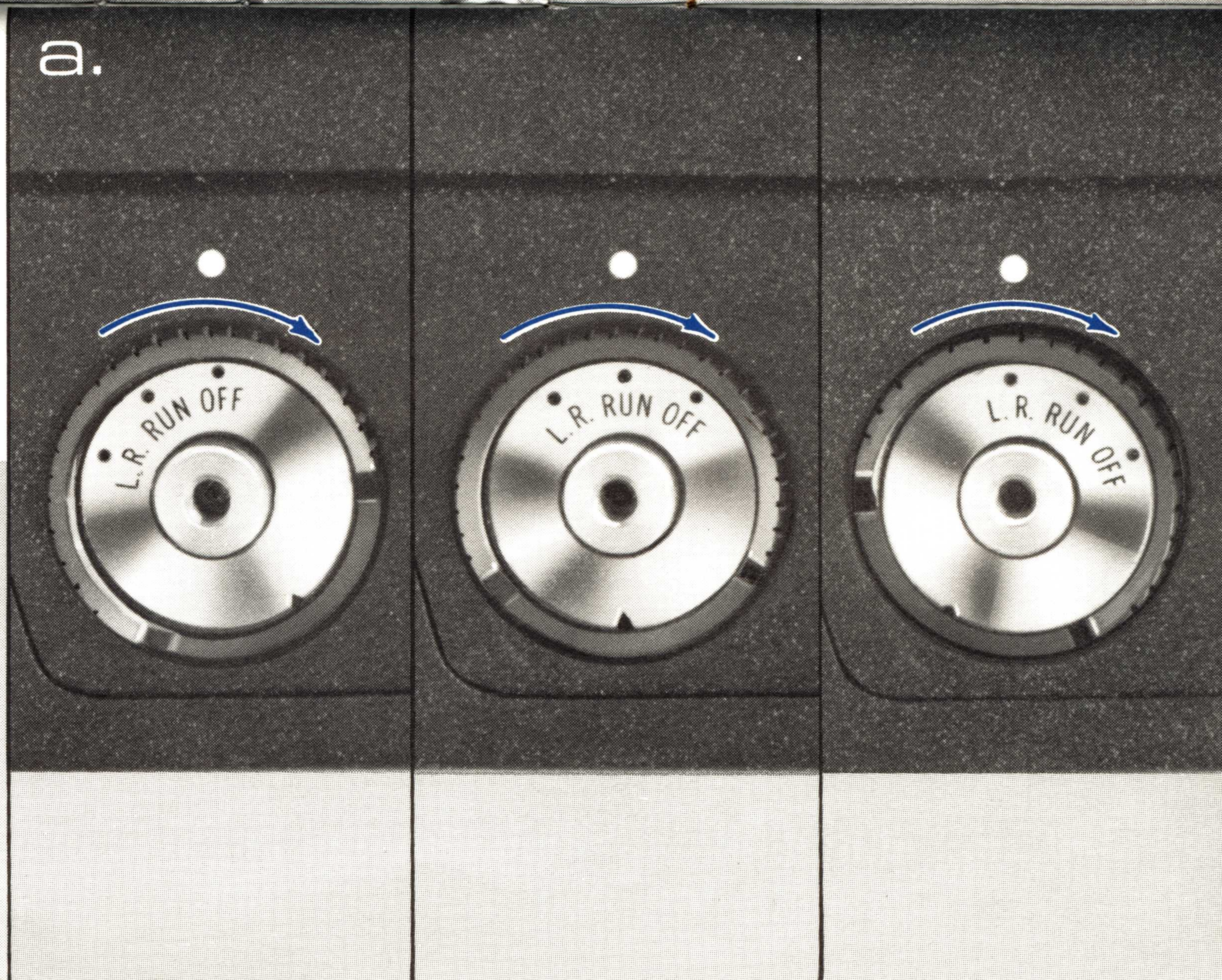
8

b. WITH ACTION GRIP:

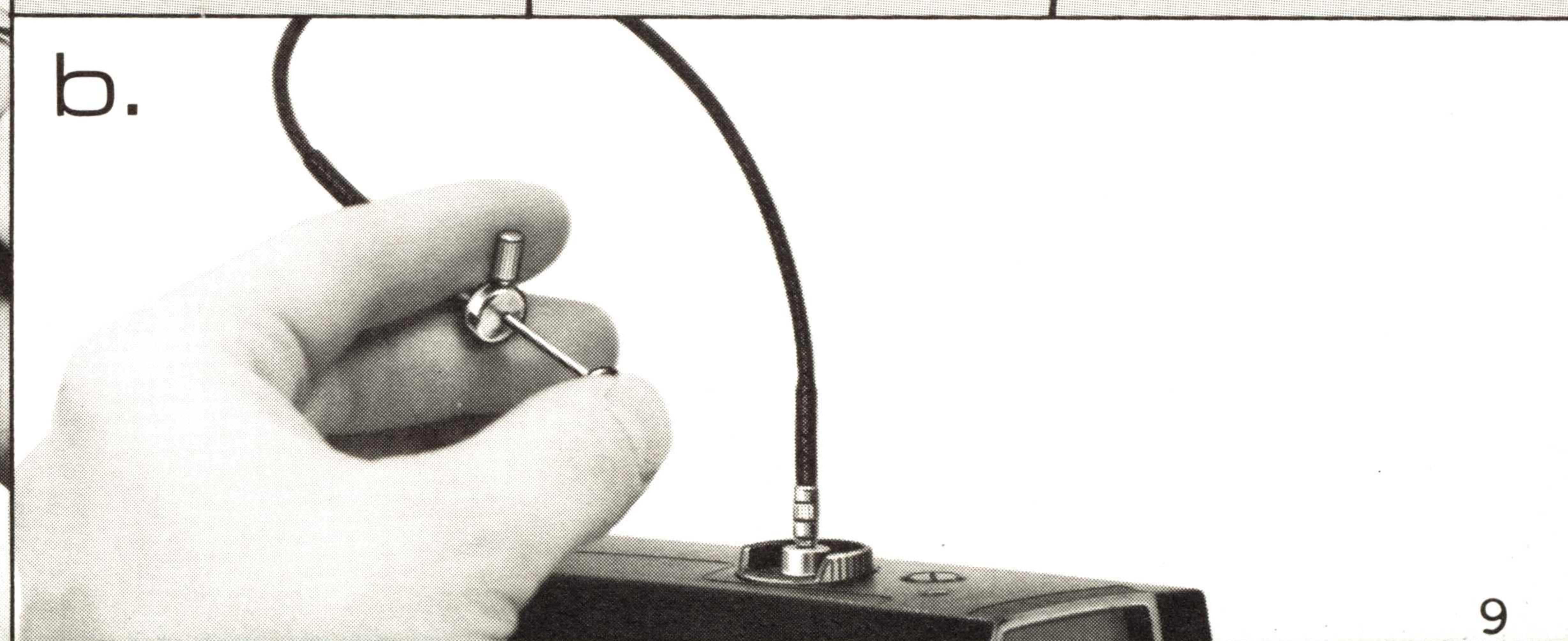
Balance and firmly hold Action Grip between fingers. Most people find the position shown to be most comfortable.



a.



b.



9

5 USING ARTIFICIAL LIGHT

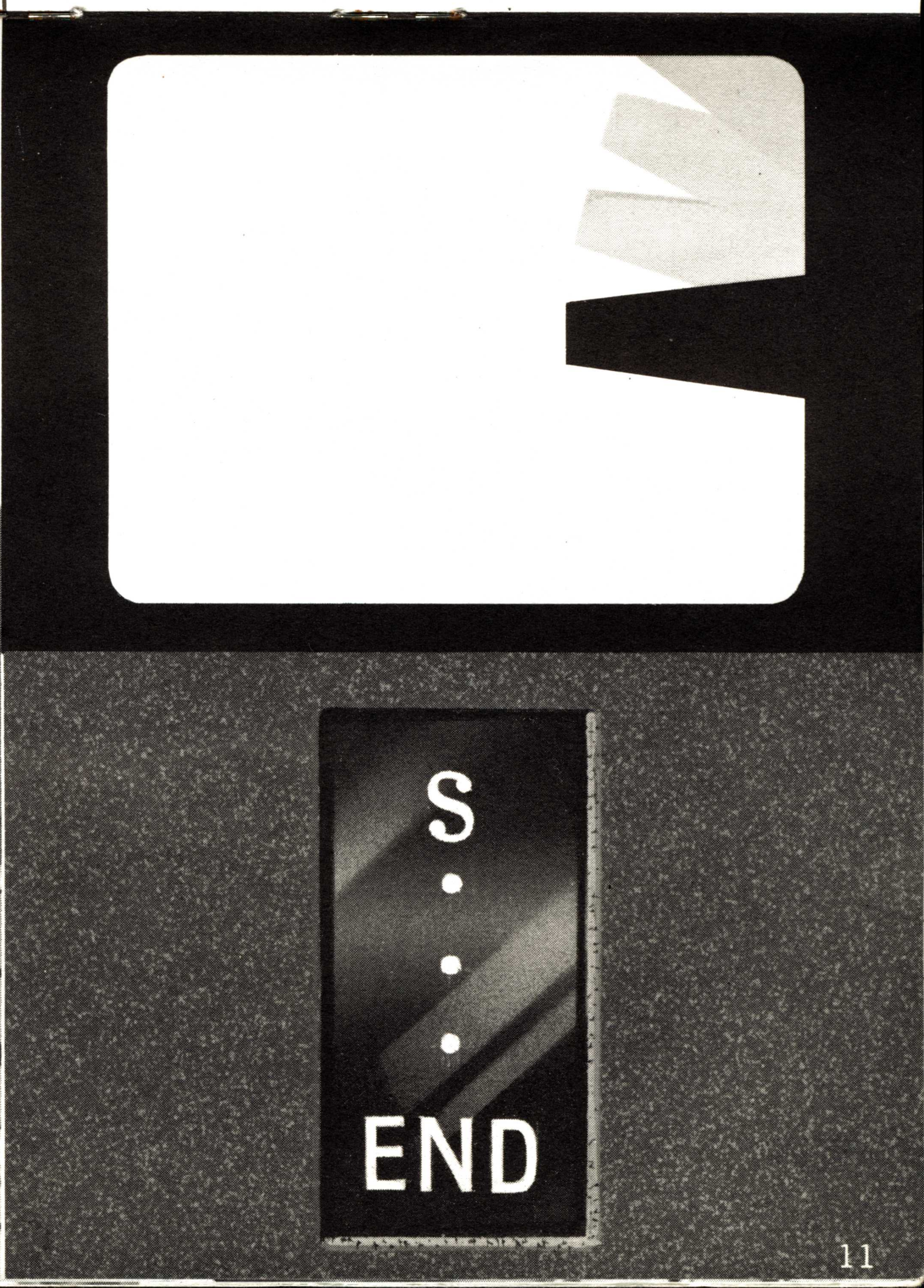
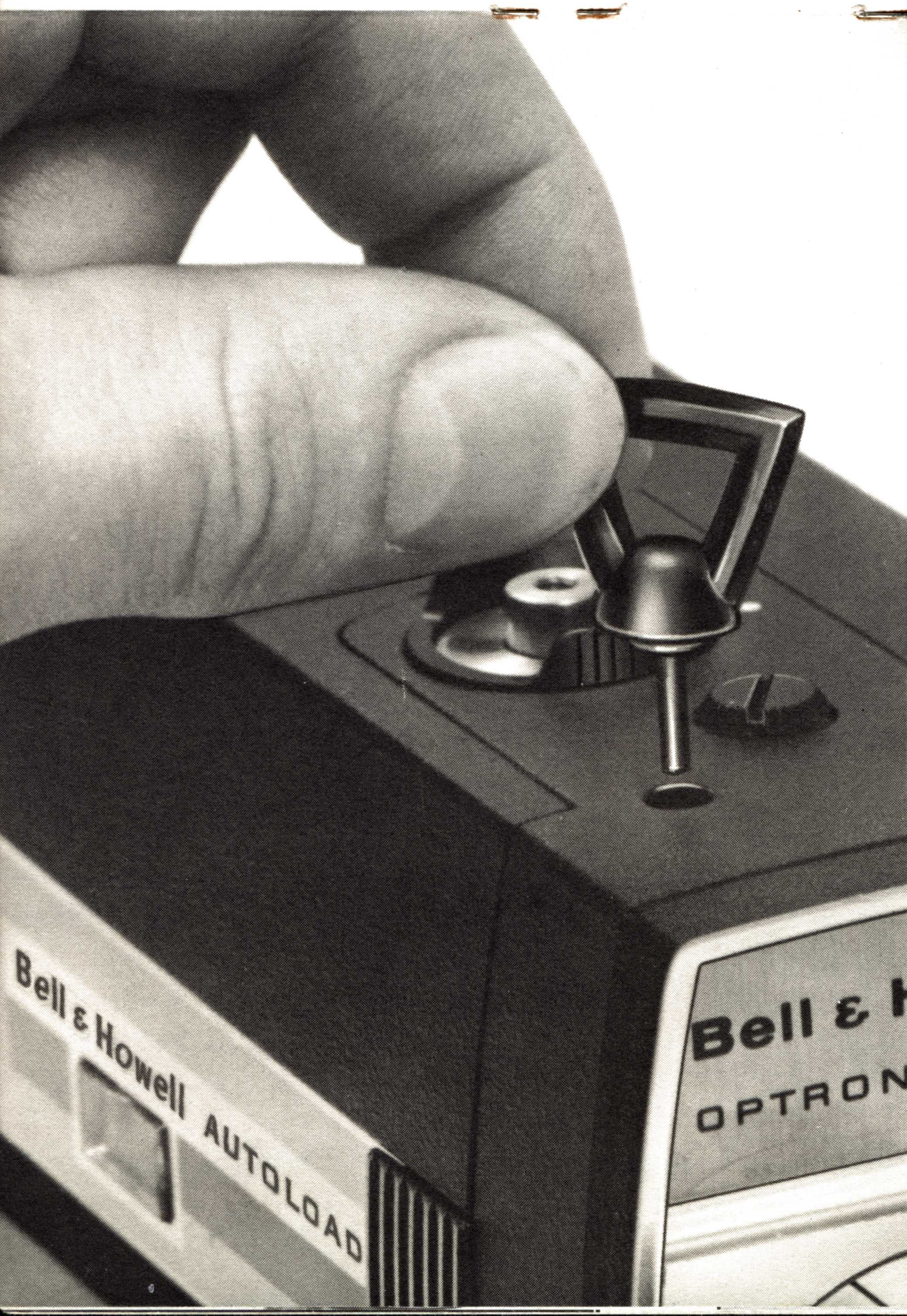
For best results when shooting indoors, use Bell & Howell's accessory Movie Lites. They have built-in Filter Pins to position Filter automatically. If you use a standard light bar or floodlight, it is necessary to insert the Filter Pin (supplied with your camera) into the Socket provided on top of the Camera. Pin must be properly seated all the way into the socket. This Pin Automatically sets the correct Filter Position to be used with artificial lighting. The Filter Pin is not required with Bell & Howell Movie Lites.

NOTE: Be certain to remove the Pin when you are not using artificial light. Refer to pages 16 and 17, "Tips on Movie Making."

6 FINISH "RED FLAG" WARNING

When your Film is almost completely exposed a "Red Flag" will start to enter your Viewfinder from the upper right hand corner. By the time the Flag has moved to the center of your Viewfinder you have completed shooting 50 feet of film. The Film Supply Indicator will have transposed from a black to a red background. Remove the Film Cartridge for processing. To preserve the life of the Batteries, turn Run-Off Switch to the "Off" position when Camera is not in use.

NOTE: When storing your Camera for a prolonged period of time, remove the Batteries from the Power Case. See pages 14 and 15.



7 ZOOM TO MORE DRAMATIC RESULTS:

a. ZOOMING

To zoom, rotate Zoom Bar. The Viewfinder will show exactly what size picture you are shooting.

■ WIDE-ANGLE

Used when you want to include more in your picture.

■ NORMAL

Used when shooting majority of your pictures.

■ TELEPHOTO

Used for close-ups and candid views of distant objects.

b. TIPS ON ZOOMING

1. For wide angle movies, your camera can be held in the hand. For telephoto shots, or zoom movies, a steady support or a camera tripod is recommended. This incidentally, is a good practice for all movie making.

2. To achieve the finest quality while shooting in the telephoto position, set the distance scale for the approximate distance you are shooting from. This applies especially when shooting close-ups.

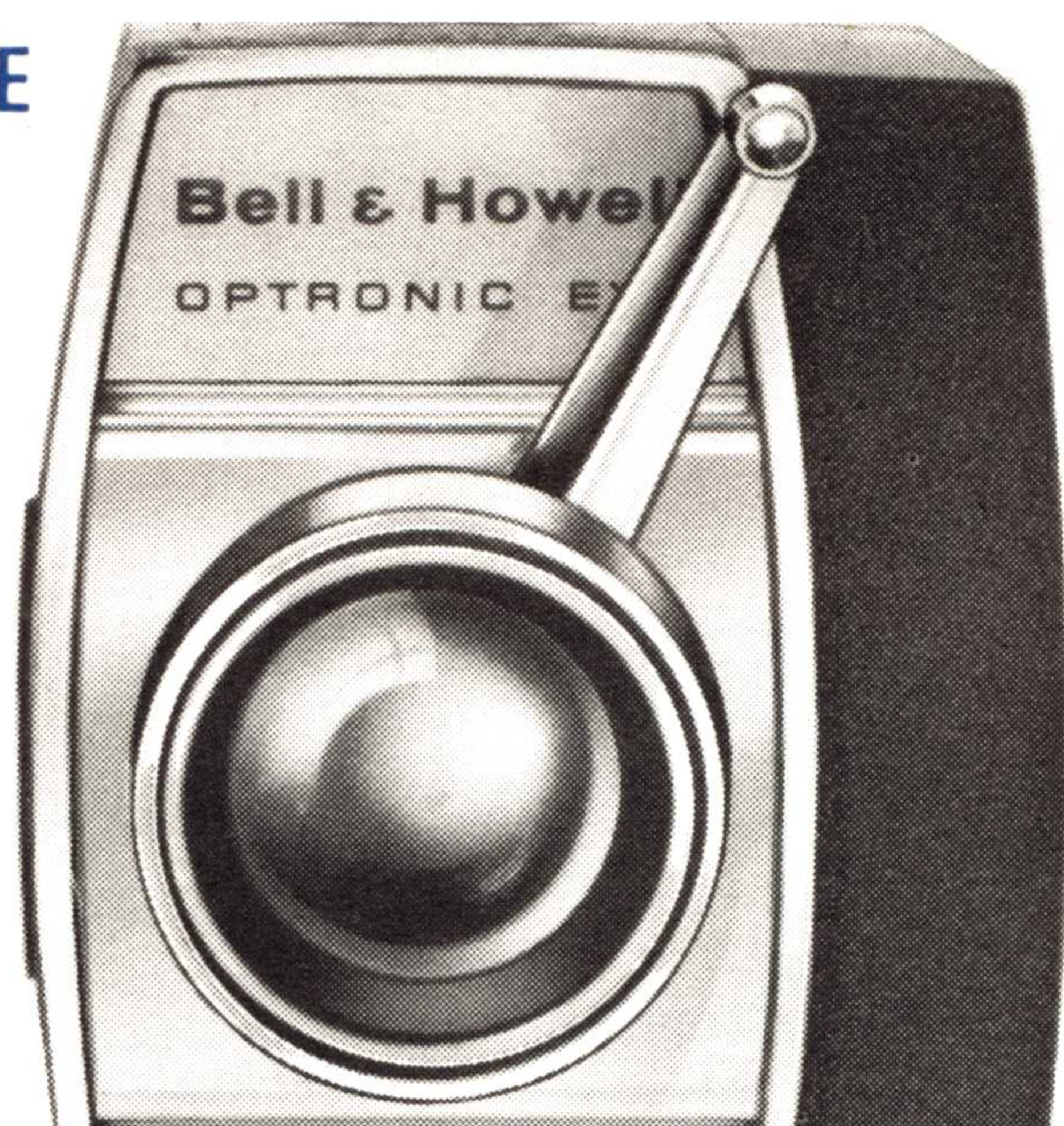
3. Don't zoom too much. Like any good technique, it will be most effective when used sparingly.

4. When using various lens positions, consult the depth of field tables, Pages 18-19. These tables show the near and far limits of sharpness at various lens openings and distance settings. Note: This range of sharpness decreases as you zoom to the telephoto position. Therefore, it is best to start your zoom effect with the lens set at the wide angle position.

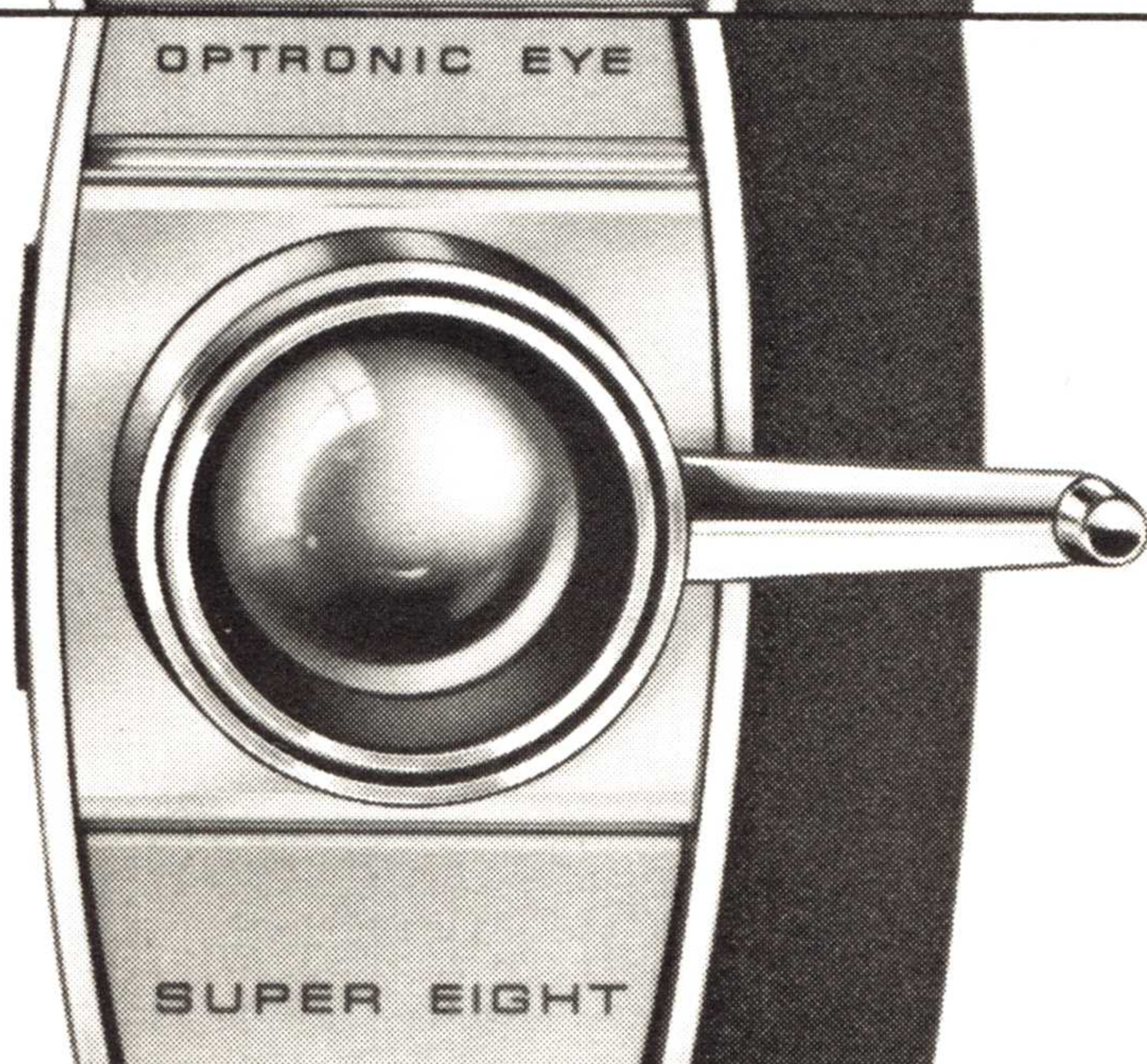
5. When you use a specific distance setting on your lens, it is not necessary to change this setting when you zoom. However, if you switch to a new subject at a different distance, the scale must be set for the new distance.

12

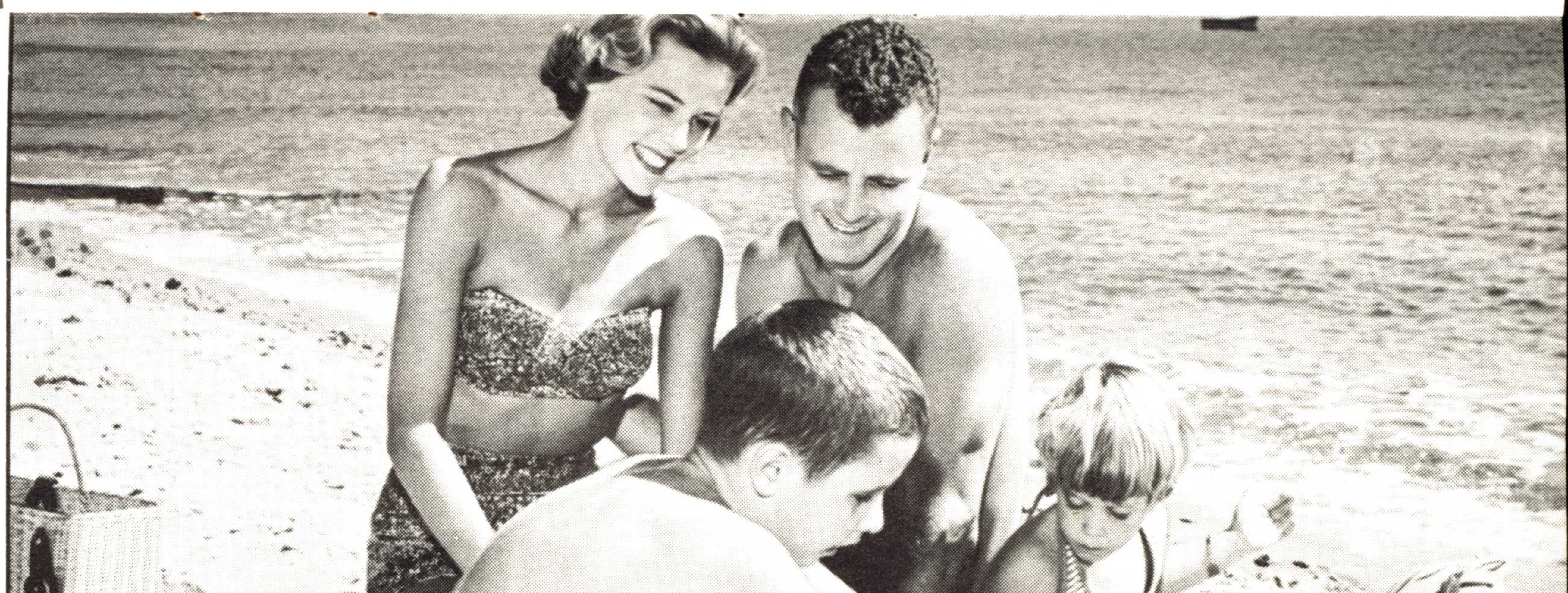
WIDE ANGLE



NORMAL



TELEPHOTO



13

8 BATTERY REPLACEMENT

a. OPEN POWER CASE

Slide Lock to rear of Camera and Door is easily removed.

b. 4 BATTERIES SUPPLY ALL THE POWER

These Batteries Automatically operate

- OPTRONIC EYE
- FILM DRIVE

Illustrated Instructions on how to load the Batteries are located on the inside of the Power Case (see below). The inside of this Case is specially coated to resist and protect your Camera from any corrosion left by the Batteries. We highly recommend Alkaline Type Batteries (Size AA) for longer lasting power and minimum corrosion.

NOTE: To preserve the life of the Batteries, turn Run-Off Switch to the "OFF" position after each day's shooting. When storing your Camera for a prolonged period of time, remove the Batteries from the Power Case.

14

a.



b.



15

9. KEEP YOUR CAMERA CLEAN

Whenever necessary, wipe off the Lens, Viewfinder and Film Channel with a piece of lens tissue moistened with lens cleaner. Use a toothpick to dislodge any hardened emulsion or dirt that might accumulate in the film channel. Have your camera checked and cleaned periodically by an Approved Bell & Howell Service Station.

10. TIPS ON MOVIE MAKING

1. As you probably already know, the first principle of good photography is—"keep the sun over your shoulder"—unless you are shooting for special effects. Direct light from the sun can cause unpleasant glare.

2. When shooting close-ups at a distance of 3 feet, the range of sharpness is greatly reduced with any lens. At this distance, you will want to use your distance scale, especially when shooting in telephoto position. As shown in the depth of field illustration on pages 18 and 19, your background will not be as sharp as your subject. For this reason, the best closeups are obtained with a plain background (such as open sky, sand, water), which does not detract from the subject.

16

3. When you shoot indoors with a lightbar, there are several things you should remember:
(a) For best results, use a Bell & Howell Movie Lite. It has a built-in Filter Pin to position the Filter automatically. If you are using a standard light bar or floodlight, it is necessary to insert the Filter Pin (supplied with your Camera) into the socket provided on top of the Camera.
(b) Always keep your subject further from the camera than it is from the background. This will give you good over-all exposure as your subject and background will be lighted at approximately the same level. When taking indoor movies, the exposure needle will frequently appear, indicating insufficient light. However, if your subject is within 15 feet from your camera and light source, your movies will be correctly exposed.

4. When it is necessary to "pan"—that is, moving the camera horizontally while the scene is being shot, there are several things you should remember:

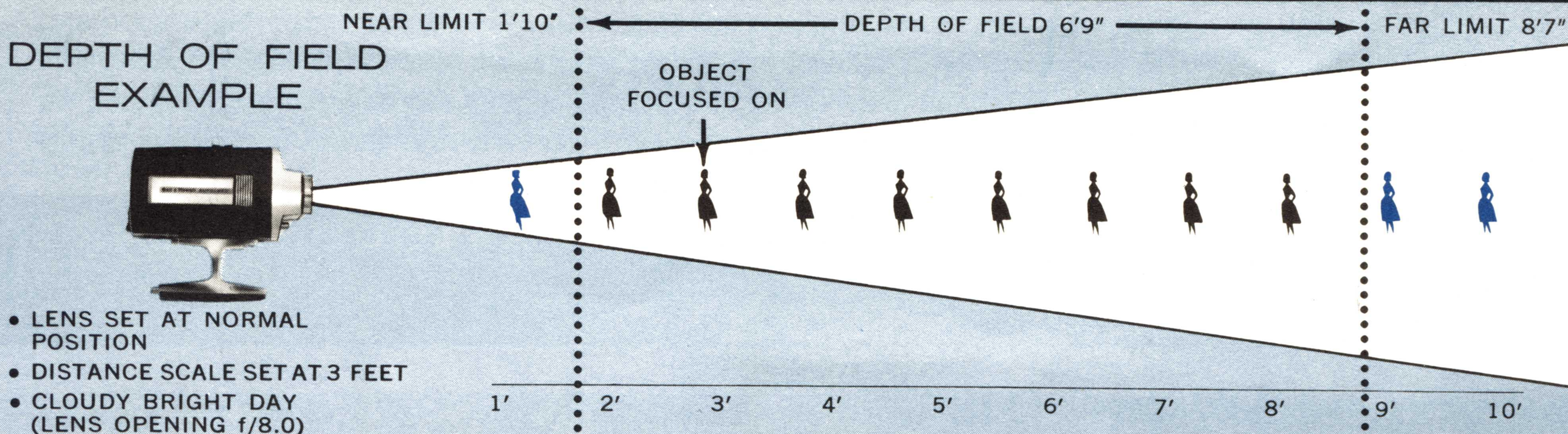
(a) When panning to follow a moving subject, keep it centered in the viewfinder. (b) As a rule, you'll get best results if you pan from left to right. (c) Never pan on close-ups—you'll get a blur. (d) Pan only when absolutely necessary; hold camera steady.

11. SHOOTING TITLES AND CLOSE-UPS


Reflex viewing on your Super 8 Camera makes close-up work very convenient since there is no parallax problem. You see exactly what is being recorded on your film. Keeping the camera steady by use of a tripod and close attention to the "Depth of Field" tables in the back of this book will produce sharp, clear titles that will add interest and excitement to your movies.

17


12. DEPTH OF FIELD CHARTS (ASA 40/25 FILM)




WIDE ANGLE (11mm)

|  | | INDOORS f/1.95 | HEAVY OVERCAST f/5.6 | CLOUDY BRIGHT (NO SHADOWS) f/8.0 | BRIGHT OR HAZY SUN OR LIGHT SAND OR SNOW f/16 |
|--|------|-------------------|-------------------------|--|--|
| OBJECT DISTANCE | | | | | |
| 3 ft. | NEAR | 2' 4" | 1' 7" | 1' 4" | 1' 1" |
| | FAR | 4' 3" | 20' 5" | ∞ | ∞ |
| 20 ft. | NEAR | 6' 8" | 2' 11" | 2' 2" | 1' 7" |
| | FAR | ∞ | ∞ | ∞ | ∞ |
| 50 ft. | NEAR | 8' 4" | 3' 3" | 2' 4" | 1' 8" |
| | FAR | ∞ | ∞ | ∞ | ∞ |

NORMAL (15mm)

|  | | INDOORS f/1.95 | HEAVY OVERCAST f/5.6 | CLOUDY BRIGHT (NO SHADOWS) f/8.0 | BRIGHT OR HAZY SUN OR LIGHT SAND OR SNOW f/16 |
|---|------|-------------------|-------------------------|--|--|
| OBJECT DISTANCE | | | | | |
| 3 ft. | NEAR | 2' 7" | 2' 1" | 1' 10" | 1' 7" |
| | FAR | 3' 7" | 5' 6" | 8' 7" | 31' 7" |
| 20 ft. | NEAR | 9' 7" | 4' 11" | 3' 8" | 2' 10" |
| | FAR | ∞ | ∞ | ∞ | ∞ |
| 50 ft. | NEAR | 13' 7" | 5' 9" | 4' 2" | 3' 1" |
| | FAR | ∞ | ∞ | ∞ | ∞ |

TELEPHOTO (35mm)

|  | | INDOORS f/1.95 | HEAVY OVERCAST f/5.6 | CLOUDY BRIGHT (NO SHADOWS) f/8.0 | BRIGHT OR HAZY SUN OR LIGHT SAND OR SNOW f/16 |
|---|------|-------------------|-------------------------|--|--|
| OBJECT DISTANCE | | | | | |
| 3 ft. | NEAR | 2' 11" | 2' 9" | 2' 7" | 2' 7" |
| | FAR | 3' 1" | 3' 3" | 3' 7" | 3' 7" |
| 20 ft. | NEAR | 15' 9" | 12' 9" | 11' 1" | 9' 5" |
| | FAR | 27' 5" | 46' | ∞ | ∞ |
| 50 ft. | NEAR | 29' 9" | 46' 3" | 16' 6" | 13' 1" |
| | FAR | 56' 6" | ∞ | ∞ | ∞ |

Bell & Howell | GUARANTEE

This new Bell & Howell product is guaranteed to be free from imperfections in both material and workmanship for one year from date of original purchase. Should any part of this equipment be defective, it will be replaced or repaired free of charge (except for transportation), providing the equipment has been operated according to the instructions accompanying it.

No liability is assumed for film which is damaged or is unsatisfactory for any reason and no liability is assumed for interruptions in operation of equipment. This guarantee is void:

- a) If equipment has been damaged by accident or mishandling;
- b) If equipment has been serviced by other than Bell & Howell approved service stations*;
- c) If adaptations or accessories other than Bell & Howell have been made or attached.

The foregoing is in lieu of all other warranties express or implied and Bell & Howell Company neither assumes nor authorizes any person to assume for it any other obligation or liability in connection with this product.

| | | |
|---|--|---|
| General Service Dept. Bell & Howell Co. 7125 N. Kimball Ave. Chicago, Ill. 60645 | General Service Dept. Bell & Howell Co. 623 Rodier Dr. Glendale, Calif. 91201 | General Service Dept. Bell & Howell Co. Smith St. East Farmingdale, L.I., N.Y. 11735 |
|---|--|---|

*Location of nearest approved service station will be furnished on request.

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